

B' CONT'D.
SSCAT 010503
SSC, 0.5% SDS at 45°C for 30 min, then repeat twice with 0.2X SSC, 0.5% SDS at 50 °C for 30 min each;

(b) hybridization in 50 mM Tris, pH 7.6, 6X SSC, 5X Denhardt's, 0.5% sodium dodecyl sulfate (SDS), 100 µg denatured calf thymus DNA at 50°C overnight and wash with 6X SSC, 0.5% SDS at room temperature for 15 min, repeat with 2X SSC, 0.5% SDS at 45°C for 30 min, then repeat twice with 0.2X SSC, 0.5% SDS at 60 °C for 30 min each;

(c) hybridization in 50 mM Tris-HCl, pH 7.5, 1M NaCl, 1% sodium dodecyl sulfate (SDS), 5% dextran sulfate and 0.1 mg/mL denatured salmon sperm DNA at 50 °C for eighteen hours and wash twice at room temperature with 2X SSPE, 1% SDS for 5 min, then washing for 5 min at 50 °C in 0.2X SSPE, 1% SDS;

(d) hybridization in 50 mM Tris-HCl, pH 7.5, 1M NaCl, 1% sodium dodecyl sulfate (SDS), 5% dextran sulfate and 0.1 mg/mL denatured salmon sperm DNA at 50 °C for sixteen hours and wash twice at room temperature with 2X SSPE, 1% SDS for 5 min, then wash with fresh solution for 10 min, then wash for 5 min at 50 °C in 0.5X SSPE, 1% SDS;

(e) hybridization in 50 mM Tris, pH 7.6, 6X SSC, 5X Denhardt's, 0.5% sodium dodecyl sulfate (SDS), 100 µg denatured calf thymus DNA at 50°C overnight and wash with 6X SSC, 0.5% SDS at room temperature for 15 min, then wash twice with 2X SSC, 0.5% SDS at 45°C for 30 min each and then wash twice with 0.2X SSC, 0.5% SDS at 60 °C for 30 min each; or

(f) hybridization in 50 mM Tris-HCl, pH 7.5, 1M NaCl, 1% sodium dodecyl sulfate (SDS), 5% dextran sulfate and 0.1 mg/mL denatured salmon sperm DNA at 50 °C for eighteen hours and wash twice at room temperature with 2X SSPE, 1% SDS for 5 min, followed by washing for 5 min at 50°C in 0.2X SSPE, 1% SDS.

21. An isolated nucleic acid fragment of Claim 20 wherein said fragment is isolated from a plant selected from the group consisting of soybean, oilseed *Brassica* species, *Arabidopsis thaliana* and corn.

22. A chimeric gene capable of causing altered levels of linolenic acid in a transformed plant cell, the gene comprising a nucleic acid fragment of Claim 20, the fragment operably linked to regulatory sequences.

23. Plants containing the chimeric gene of claim 22.

24. Seeds obtained from the plants of claim 23.